

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WM9XXI

(Call Sign)

XT      FX

(Class of Station)

0753-EX-ST-2018

(File Number)

NAME University at Buffalo, The State University of New York

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

**Purpose Of Operation:**

To make propagation measurements in the 200 GHz region in order to develop better propagation models and to study the effectiveness of different modulation types for broadband data.

**Station Locations**

(1) Buffalo (ERIE), NY - NL 42-57-28; WL 78-48-53

**Frequency Information**

Buffalo (ERIE), NY - NL 42-57-28; WL 78-48-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
220-260 GHz	FX	40G0F1D	3162 W (ERP)	0.00001 %

**Special Conditions:**

- (1) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Stop Buzzer, Josep Jornet at (716) 645-1607, email: jmjornet@buffalo.edu

This authorization effective July 11, 2018 and  
will expire 3:00 A.M. EST November 21, 2018

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



Special Conditions:

- (4) All operations granted on an experimental basis shall be on an unprotected, non-interference basis to authorized stations.
- (5) The University of Buffalo shall be aware that NASA will not concur on any requests for operational use of the 226-231.5 GHz or 250-252 GHz frequency bands; this concurrence for experimental operation in a passive allocation is being provided on a one time only basis.
- (6) The University of Buffalo shall not transmit in the 226-231.5 GHz or 250-252 GHz frequency bands when the NASA Aura spacecraft (NORAD designation 28376 or international spacecraft ID 2004-07-15) is within horizon-to-horizon view of the testing location.
- (7) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number: amend conditions.